

USPN: 10/075,715

Attorney Docket No: 1059,00073

IN THE CLAIMS:

1. (Currently amended) A method of promoting neurogenesis comprising the step of:

administering a therapeutic amount of a ~~nitric oxide donor~~ therapeutic compound for increasing levels of cGMP to a patient in need of neurogenesis promotion post stroke.

2. (Currently Amended) A compound for promoting neurogenesis comprising an effective amount of a ~~nitric oxide donor~~ therapeutic compound that increases levels of cGMP, sufficient to promote neurogenesis.

3. (Currently amended) A neurogenesis promoter comprising a ~~nitric oxide donor in a pharmaceutically acceptable carrier~~ therapeutic compound that increases levels of cGMP, said therapeutic compound capable of promoting neurogenesis in a pharmaceutically acceptable carrier.

4. (Currently Amended) The neurogenesis promoter according to claim 3, wherein said ~~nitric oxide donor~~ therapeutic compound augments nitric oxide in a tissue.

5. (Previously Presented) The neurogenesis promoter according to claim 4, wherein said nitric oxide donor is selected from the group consisting essentially of phosphodiesterase inhibitors, L-arginine, sildenafil, and atorvastatin.

6. (Currently Amended) A method of augmenting the production of neurons by administering an effective amount of a therapeutic compound that increases levels of cGMP, nitric oxide donor to a site in need of augmentation.

7. (Currently amended) A method of increasing neurological function by administering an effective amount of a ~~nitric oxide donor to a patient~~ therapeutic

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Attorney Docket No: 1058,00073

compound that increases levels of cGMP ~~nitric oxide donor~~ to a patient in need of increased neurological function after neurological damage has occurred.

8. (Currently amended) A method of increasing cognitive and neurological function by administering an effective amount of a therapeutic ~~nitric oxide donor~~ compound that increases levels of cGMP to a patient in need of increased cognitive and neurological function after neurological and cognitive damage has occurred.

9. (New) A method of promoting neurogenesis comprising the step of increasing levels of cGMP in a patient in need of neurogenesis promotion.

10. (New) A method of augmenting the production of neurons by increasing cGMP levels at a site in need of augmentation.

11. (New) A method of increasing neurological function by increasing levels of cGMP in a patient in need of increased neurological function.

12. (New) A method of increasing cognitive and neurological function by increasing levels of cGMP in a patient in need of increased cognitive and neurological function.

13. (New) A compound for increasing *in vivo* levels cGMP for use in generating neurons.